

Claims

1. The use of osmolytes as well as their equally effective derivatives and/or pharmacologically compatible salts thereof for the combating of diseases caused by the effects of suspended particulate on the tissue of the lungs and/or the cardiovascular diseases that are related with them.
2. Use of osmolytes as well as their equally effective derivatives and/or pharmacologically compatible salts thereof for the production of inhalable pharmaceutical preparations aimed at combating of diseases caused by the effects of suspended particulate on the lungs tissue and/or the cardiovascular diseases that are related with them.
3. Use according to claims 1 or 2, characterized in that ectoine, hydroxyectoine, firoin, firoin-A, diglycerol phosphate, cyclic diphosphoglycerate, 1,3 dimannosyl di-myo-inositol phosphate (DMIP) and/or diinositol phosphate are used as osmolytes.
4. Use according to claim 3, characterized in that ectoine and/or hydroxyectoine, their equally effective derivatives and/or their pharmacologically compatible salts are used as osmolytes.
5. Use according to any one of claims 1 to 4, characterized in that further active agents are added to the preparation.
6. An inhalation device filled with active agent, the atomizable solid or liquid contents of which consisting of an active agent composition comprising at least one osmolyte or its derivatives and/or pharmacologically acceptable salts thereof.
7. Inhalation device according to claim 6, characterized in that the active agent composition comprises as osmolyte ectoine, hydroxyectoine, firoin, firoin-A, diglycerol phosphate, cyclic diphosphoglycerate, 1,3 dimannosyl di-myo-inositol

phosphate (DMIP) and/or diinositol phosphate.

8. Inhalation device according to claims 6 and 7, characterized in that the active agent composition contains as osmolytes ectoine and/or hydroxyectoine, their equally effective derivatives and/or their pharmacologically compatible salts.

9. Inhalation device according to claims 6 to 8 in the form of a filled inhaler for liquid pharmaceutical preparations.

10. Inhalation device according claims 6 to 8 in the form of a filled powder inhaler.